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Attorney Docket No. 5051-441

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: DeSimone et al.

Serial No.: 09/641,815

Filed: August 18, 2000

For: CARBON DIOXIDE-SOLUBLE POLYMERS AND SWELLABLE POLYMERS  
FOR CARBON DIOXIDE APPLICATIONS

Examiner: N. Preisch

Group Art Unit: 1764

September 9, 2002

Commissioner for Patents  
Washington, DC 20231

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AMENDMENT

Sir:

This Amendment is responsive to the Office Action mailed April 9, 2002. A "Version with Markings to Show Changes Made" is attached hereto.

In the Claims:

Please cancel Claims 10, 14, 15, 16, 17, 47, and 48.

Please replace Claims 1, 9, and 11 with the following amended claims:

1. (Amended) A method for carrying out a catalysis reaction in carbon dioxide, said method comprising:

contacting a fluid mixture with a catalyst bound to a polymer, the fluid mixture comprising at least one reactant and carbon dioxide, wherein the reactant interacts with the catalyst to form a reaction product, and wherein the polymer is soluble in carbon dioxide.

9. (Amended) The method according to Claim 8, wherein the enzymatic catalyst is selected from the group consisting of alcohol dehydrogenases, alcohol oxidase, aldolase, phosphatases, alpha-chymotrypsin, asparaginase, anhydrase, catalase, creatine kinase, glutaminase, oxidases, lipases, luciferase, urease, hydratase, peroxidase, subtilisin Carlsberg